SB53-C THRU SB54-C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE:30 TO 40V

CURRENT: 5.0A

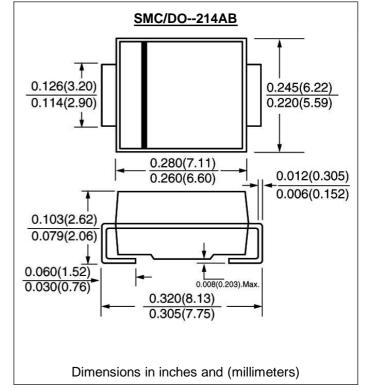




Plastic package has Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Low profile package Built-in strain relief Low power loss, high efficiency High current capability, low forward voltage drop High surge capability For use in low voltage high frequency inverters, free wheeling, and polarity protection applications Guarding for over voltage protection



Case: JEDEC DO-214AB molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 High temperature soldering guaranteed: 250°C /10 seconds at terminals Polarity: Color band denotes cathode end Weight: 0.007 ounce, 0.25gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	SB53-C	SB54-C	units
Device marking code		SB53	SB54	
Maximum Recurrent Peak Reverse Voltage	Vrrm	30	40	V
Maximum RMS Voltage	Vrms	21	28	V
Maximum DC blocking Voltage	Vdc	30	40	V
Maximum Average Forward Rectified Current 3/8'lead length at T_L (See Fig.1)	lf(av)	5.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	175.0		A
Maximum Forward Voltage at rated Forward current at 5.0A TJ = 25°C (Note 1)	Vf	0.50		V
Maximum DC Reverse CurrentTJ =25°Cat rated DC blocking voltageTJ =125°C	lr	0.7	0.5	mA
		65	60	
Typical Thermal Resistance (Note 2)	R(ja)	60.0		°C /W
	R(jl)	20.0		
Storage and Operating Temperature Range	Tstg	-50 to +150		°C

NOTES:

(1) Pulse test: $300\mu s$ pulse width, 1% duty cycle

(2) Aluminum substrate mounted

RATINGS AND CHARACTERISTIC CURVES SSC53L THRU SSC54

